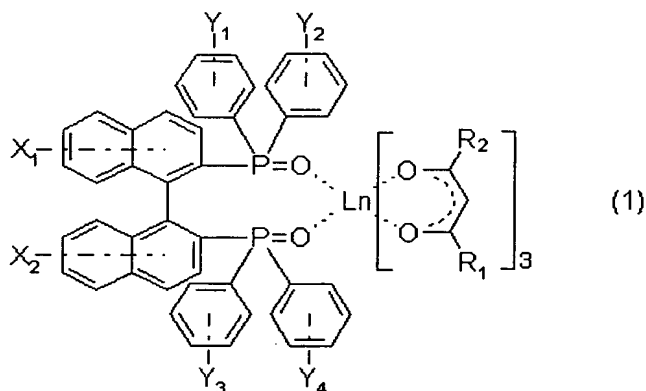


## ABSTRACT

The present invention relates to a new optically active rare earth complex (1) represented by a general formula (1);



(in the formula,  $X_1$  and  $X_2$  each independently represents a hydrogen atom, a halogen atom, an alkyl group having 1 to 4 carbon atoms or an alkoxy group having 1 to 4 carbon atoms;  $Y_1$ ,  $Y_2$ ,  $Y_3$ , and  $Y_4$ , each independently represents a hydrogen atom, a halogen atom, or an alkyl group having 1 to 4 carbon atoms;  $R_1$  represents an alkyl group having 1 to 8 carbon atoms, a fluorine-substituted alkyl group having 1 to 8 carbon atoms, or a phenyl group;  $R_2$  is a group selected from the group consisting of (a) cyclopentadienyl groups, (b) phenyl groups, and (c) naphthyl groups) .